



SEQUENCE LISTING

<110> Gutkowska et al.

<120> Oxytocin as Cardiomyogenesis Inducer and Uses Thereof

<130> 29105/40749

<150> PCT/CA2003/000897

<151> 2003-06-13

<150> CA 2391118

<151> 2002-06-21

<160> 17

<170> PatentIn version 3.4

<210> 1

<211> 9

<212> PRT

<213> Homo sapiens

<220>

<221> Disulfide bridge

<222> (1)..(6)

<223> Residues 1 and 6 are linked via a disulfide bridge

<220>

<221> Modification

<222> (9)..(9)

<223> C-terminal Gly is amidated

<400> 1

Cys Tyr Ile Gln Asn Cys Pro Leu Gly

1 5

<210> 2

<211> 11

<212> PRT

<213> Homo sapiens

<220>

<221> Disulfide bridge

<222> (1)..(6)

<223> Residues 1 and 6 are linked via a disulfide bridge

<400> 2

Cys Tyr Ile Gln Asn Cys Pro Leu Gly Gly Lys

1 5 10

<210> 3

<211> 512

<212> DNA

<213> Homo sapiens

<400> 3

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 <212> PRT
 <213> Homo sapiens

<400> 4

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 1 5 10 15

Thr Ser Ala Cys Tyr Ile Gln Asn Cys Pro Leu Gly Gly Lys Arg Ala
 20 25 30

Ala Pro Asp Leu Asp Val Arg Lys Cys Leu Pro Cys Gly Pro Gly Gly
 35 40 45

Lys Gly Arg Cys Phe Gly Pro Asn Ile Cys Cys Ala Glu Glu Leu Gly
 50 55 60

Cys Phe Val Gly Thr Ala Glu Ala Leu Arg Cys Gln Glu Glu Asn Tyr
 65 70 75 80

Leu Pro Ser Pro Cys Gln Ser Gly Gln Lys Ala Cys Gly Ser Gly Gly
 85 90 95

Arg Cys Ala Val Leu Gly Leu Cys Cys Ser Pro Asp Gly Cys His Ala
 100 105 110

Asp Pro Ala Cys Asp Ala Glu Ala Thr Phe Ser Gln Arg
 115 120 125

<210> 5
 <211> 27
 <212> DNA
 <213> Homo sapiens

<400> 5
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27

<210> 6
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<221> Disulfide bridge
<222> (1)..(6)
<223> Residues 1 and 6 are linked via a disulfide bridge

<400> 6
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1 5

<210> 7
<211> 4357
<212> DNA
<213> Homo sapiens

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<210> 8
<211> 389
<212> PRT
<213> Homo sapiens

<400> 8

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1 5 10 15

Ser Ala Ala Pro Pro Gly Ala Glu Gly Asn Arg Thr Ala Gly Pro Pro
20 25 30

Arg Arg Asn Glu Ala Leu Ala Arg Val Glu Val Ala Val Leu Cys Leu

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65					70					75					80				
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Leu	Leu	Trp	Asp	Ile	Thr	Phe	Arg	Phe	Tyr	Gly	Pro	Asp	Leu	Leu	Cys				
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Arg	Leu	Val	Lys	Tyr	Leu	Gln	Val	Val	Gly	Met	Phe	Ala	Ser	Thr	Tyr				
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Leu	Arg	Glu	Val	Ala	Asp	Gly	Val	Phe	Asp	Cys	Trp	Ala	Val	Phe	Ile				
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Gln	Pro	Trp	Gly	Pro	Lys	Ala	Tyr	Ile	Thr	Trp	Ile	Thr	Leu	Ala	Val				
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Tyr	Ile	Val	Pro	Val	Ile	Val	Leu	Ala	Thr	Cys	Tyr	Gly	Leu	Ile	Ser				
	210					215					220								
Phe	Lys	Ile	Trp	Gln	Asn	Leu	Arg	Leu	Lys	Thr	Ala	Ala	Ala	Ala	Ala				
225					230					235					240				
Ala	Glu	Ala	Pro	Glu	Gly	Ala	Ala	Ala	Gly	Asp	Gly	Gly	Arg	Val	Ala				
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Leu	Ala	Arg	Val	Ser	Ser	Val	Lys	Leu	Ile	Ser	Lys	Ala	Lys	Ile	Arg				
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Thr	Val	Lys	Met	Thr	Phe	Ile	Ile	Val	Leu	Ala	Phe	Ile	Val	Cys	Trp				
		275					280					285							

Thr Pro Phe Phe Phe Val Gln Met Trp Ser Val Trp Asp Ala Asn Ala
 290 295 300

Pro Lys Glu Ala Ser Ala Phe Ile Ile Val Met Leu Leu Ala Ser Leu
 305 310 315 320

Asn Ser Cys Cys Asn Pro Trp Ile Tyr Met Leu Phe Thr Gly His Leu
 325 330 335

Phe His Glu Leu Val Gln Arg Phe Leu Cys Cys Ser Ala Ser Tyr Leu
 340 345 350

Lys Gly Arg Arg Leu Gly Glu Thr Ser Ala Ser Lys Lys Ser Asn Ser
 355 360 365

Ser Ser Phe Val Leu Ser His Arg Ser Ser Ser Gln Arg Ser Cys Ser
 370 375 380

Gln Pro Ser Thr Ala
 385

<210> 9
 <211> 22
 <212> DNA
 <213> Artificial sequence

<220>
 <223> Synthetic oligonucleotide

<400> 9
 aagatgacct tcattcattgt tc 22

<210> 10
 <211> 23
 <212> DNA
 <213> Artificial sequence

<220>
 <223> Synthetic oligonucleotide

<400> 10
 cgactcagga cgaaggtgga gga 23

<210> 11
 <211> 24
 <212> DNA
 <213> Artificial sequence

<220>
 <223> Synthetic oligonucleotide

<400> 11
 gtcaatccta cccccgaagc agct 24

<210> 12
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 <400> 12
 cagcatgggc tccttctcca 20

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 <400> 13
 cagtgatggc atccactgtg gtc 23

<210> 14
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 <220>
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 <400> 14
 aaggtcggtg tcaacccatt tggccgt 27

<210> 15
 <211> 10
 <212> PRT
 <213> Homo sapiens

 <220>
 <221> Disulfide bridge
 <222> (1)..(6)
 <223> Residues 1 and 6 are linked via a disulfide bridge

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 1 5 10

<210> 16
 <211> 12
 <212> PRT
 <213> Homo sapiens

 <220>
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 <222> (1)..(6)
 <223> Residues 1 and 6 are linked via a disulfide bridge

<400> 16

Cys Tyr Ile Gln Asn Cys Pro Leu Gly Gly Lys Arg
1 5 10

<210> 17

<211> 12

<212> PRT

<213> Homo sapiens

<220>

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<222> (1)..(6)

<223> Residues 1 and 6 are linked via a disulfide bridge

<220>

<221> Misc_feature

<222> (9)..(9)

<223> If residue 10 not Gly, the Gly in position 9 may be optionally
amidated

<220>

<221> Misc_feature

<222> (10)..(10)

<223> Xaa=Gly or nothing

<220>

<221> Misc_feature

<222> (11)..(11)

<223> If residue 10 is Gly, Xaa=Lys or nothing; if residue 10 is not Gly,
Xaa=nothing

<220>

<221> Misc_feature

<222> (12)..(12)

<223> If residue 11 is Lys, Xaa=Arg or nothing; if residue 10 is not Lys,
Xaa=nothing

<400> 17

Cys Tyr Ile Gln Asn Cys Pro Leu Gly Xaa Xaa Xaa
1 5 10